

ABSTRACT OF THE DISCLOSURE

The present invention relates to a transceiver for bidirectional frequency division multiplexed transmission, a communication system including one or more transceivers. Optionally, the communication system is a communication system for a digital subscriber line. The transceiver comprises transmission means with a voltage source output or a current source output for transmitting data in a transmission frequency range, receiving means for receiving data in a receiving frequency range, and a coupling impedance for connecting the transmission means and the receiving means to a transmission medium. The magnitude of the coupling impedance in the transmission frequency range is smaller than the magnitude of the coupling impedance in the receiving frequency range if the transmission means has a voltage source output and is higher than the magnitude of the coupling impedance in the receiving frequency range if the transmission means has a current source output. Due to the reduced magnitude or increased magnitude respectively in the transmitting frequency range, the transmit signal power requirement is reduced. In one variant of the invention, the magnitude of the coupling impedance is matched to the magnitude of the impedance of the transmission medium in order to increase the power of the received signals.